

# Specifications — RGB 203 Rxi

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## Video

Routing .....	3 x 1 router
Gain.....	0.5 V to 1.45 Vp-p
Bandwidth.....	300 MHz (-3 dB)
Rise time .....	1.5 ns

## Video input

Number/signal type.....	3 analog RGBHV, RGBS, RGsB, RsGsBs
Connectors .....	3 female 15-pin HD
Nominal level .....	0.7 Vp-p for RGB
Minimum/maximum levels.....	Analog: 0.3 V to 1.45 Vp-p with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 150 kHz
Vertical frequency.....	40 Hz to 140 Hz
Return loss.....	<-30 dB @ 5 MHz
DC offset (max. allowable).....	4 V

## Video output

Number/signal type.....	1 analog RGBHV, RGBS, RGsB
Connectors .....	6 BNC female
Nominal level .....	0.7 Vp-p for RGB
Minimum/maximum levels.....	0.3 V to 1.30 Vp-p
Impedance.....	75 ohms
Return loss.....	-30 dB @ 5 MHz
DC offset.....	±5 mV maximum with input at 0 offset

## Sync

Input type.....	RGBHV, RGBS, RGsB, RsGsBs
Output type.....	RGBHV, RGBS, RGsB
Input level .....	2 V to 5.5 Vp-p with ±0.2 VDC offset max.
Output level .....	TTL: 4V to 5V p-p, unterminated
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Max. propagation delay .....	85 ns
Max. rise/fall time .....	2 ns
Polarity.....	RGBHV: tracks polarity (or force negative sync via internal jumper) RGBS, RGsB: negative

## Audio

Routing .....	2 x 1 stereo router
Gain.....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response .....	20 Hz to 20 kHz, ±0.05 dB
THD + Noise.....	0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N.....	>90 dB at rated maximum output (17 dBu), balanced (unweighted)
Crosstalk.....	<-90 dB @ 1 kHz, fully loaded
Stereo channel separation .....	>90 dB @ 1 kHz

## Audio input

Number/signal type.....	2 PC level stereo, unbalanced
Connectors .....	(2) 3.5 mm mini audio jacks (female)
Impedance.....	>10k ohms, unbalanced, DC coupled

## Specifications — RGB 203 Rxi, cont'd

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Nominal level .....	-10 dBV (316 mVrms)
Maximum level.....	+8.5 dBu, (balanced or unbalanced) at 1% THD+N

**NOTE**  $0\text{ dBu} = 0.775\text{ Vrms}$ ,  $0\text{ dBV} = 1\text{ Vrms}$ ,  $0\text{ dBV} \approx 2\text{ dBu}$

### Audio output

Number/signal type.....	1 buffered stereo (2 channel) or mono, balanced/unbalanced
Connectors .....	(1) 3.5 mm, captive screw connector, 5 pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Gain error .....	$\pm 0.1\text{ dB}$ channel to channel
Maximum level (Hi-Z) .....	$> +14\text{ dBu}$ , balanced at 1% THD+N
Maximum level (600 ohm).....	$> +8.5\text{ dBm}$ , balanced at stated %THD+N

### Control/remote — interface

Serial control port.....	RS-232, 9-pin female D connector (also used for contact closure)
Baud rate and protocol.....	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations.	2 = TX, 3 = RX, 5 = GND
Contact closure .....	(1) 9-pin female D connector (also used for RS-232)
Contact closure pin configuration	1 = input #1, 4 = input #2, 5 = GND
Program control.....	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

### General

Input power .....	100 VAC to 240 VAC, 50/60 Hz, 18 watts, internal
MBC power jacks .....	9.0 VDC, 0.15 A
Cooling .....	Convection, vents on left and right sides
Temperature/humidity .....	Storage: $-40$ to $+158\text{ }^{\circ}\text{F}$ ( $-40$ to $+70\text{ }^{\circ}\text{C}$ ) / 10% to 90%, noncondensing Operating: $+32$ to $+113\text{ }^{\circ}\text{F}$ ( $0$ to $+45\text{ }^{\circ}\text{C}$ ) / 10% to 90%, noncondensing
Mounting	
Rack mount .....	Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129)
Furniture mount.....	Yes, with optional under-desk mounting kit, part #70-077-01 (MBU 125) or through-desk mounting kit, part #70-077-02 (MBD 129)
Enclosure type .....	Metal
Enclosure dimensions.....	1.75" H x 8.75" W x 8.0" D (1U high, half rack wide) (4.4 cm H x 22.2 cm W x 20.3 cm D; with rear BNCs, D = 8.4" [21.3 cm]) (Depth excludes knobs.)
Product weight .....	2.2 lbs (1.0 kg)
Shipping weight.....	5 lbs (3 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, CUL, UL
EMI/EMC .....	CE, C-tick, FCC Class A, ICES, VCCI
MTBF.....	30,000 hours
Warranty .....	3 years parts and labor

**NOTE** All nominal levels are at  $\pm 10\%$ .

**NOTE** Specifications are subject to change without notice.

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